

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 3392200003**



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

PAir State Facility

Permit ID: 3-3922-00003/00013

Mod 0 Effective Date: 03/22/2002 Expiration Date: No expiration date.

Mod 1 Effective Date: 07/03/2002 Expiration Date: No expiration date.

Permit Issued To: MIRANT BOWLINE LLC  
FOUR EXECUTIVE BLVD SUITE 100  
SUFFERN, NY 10901

Contact: MARK LYNCH  
4 EXECUTIVE BLVD SUITE 100  
SUFFERN, NY 10901  
(845) 357-5266

Facility: BOWLINE POINT GENERATING STATION  
SAMSONDALE AVE  
WEST HAVERSTRAW, NY 10993

Contact: VINCENT DEVITA  
MIRANT NY-GEN LLC  
FOUR EXECUTIVE BLVD SUITE 100  
SUFFERN, NY 10901  
(845) 786-8070

Description:

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

ROBERT J STANTON

NYS DEC DIVISION OF AIR RESOURCES  
21 SOUTH PUTT CORNERS RD  
NEW PALTZ, NY 12561-1696

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



**LIST OF CONDITIONS**

**GENERAL CONDITIONS**

**General Provisions**

Facility Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

**Facility Level**

Submission of Applications for Permit Modification or Renewal-REGION 3

HEADQUARTERS



**DEC GENERAL CONDITIONS**

**\*\*\*\* General Provisions \*\*\*\***

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**  
**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

**Item 1.2:**

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

**Item 1.3:**

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**  
**Applicable State Requirement: ECL 3-0301.2(m)**

**Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**Condition 3: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13**

**Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Item 3.3:**

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual

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transfer of ownership.

**Condition 4: Permit Modifications, Suspensions and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

**Item 4.1:**

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of Applications for Permit Modification or Renewal-REGION 3 HEADQUARTERS**  
**Applicable State Requirement: 6NYCRR 621.5(a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator  
Region 3 Headquarters  
Division of Environmental Permits

21 South Putt Corners Road

New Paltz, NY 12561-1696  
(845) 256-3054

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**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT**

**IDENTIFICATION INFORMATION**

MIRANT BOWLINE LLC

FOUR EXECUTIVE BLVD SUITE 100  
SUFFERN, NY 10901

Facility: BOWLINE POINT GENERATING STATION  
SAMSONDALE AVE  
WEST HAVERSTRAW, NY 10993

Authorized Activity By Standard Industrial Classification Code:  
4911 - ELECTRIC SERVICES

Mod 0 Permit Effective Date: 03/22/2002



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6NYCRR 201-6.3(a)(2): Title V Permit Requirement
- 2 6NYCRR 202-1.1: Compliance Demonstration
- 3 6NYCRR 227-1.6(a): Corrective action.
- 4 6NYCRR 227-1.6(b): Corrective action.
- 5 6NYCRR 227-1.6(c): Corrective action.
- 6 6NYCRR 227-1.6(d): Corrective action.
- 7 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 8 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 9 40CFR 60.7(a), NSPS Subpart A: Date of construction notification - If  
a COM is not used.
- 10 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 11 40CFR 60.7(c), NSPS Subpart A: Excess emissions report.
- 12 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 13 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 14 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 15 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 16 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 17 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 18 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 19 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 20 40CFR 60.9, NSPS Subpart A: Availability of information.
- 21 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 22 40CFR 60.11(a), NSPS Subpart A: Compliance with Standards and  
Maintenance Requirements
- 23 40CFR 60.11(d), NSPS Subpart A: Compliance with Standards and  
Maintenance Requirements
- 24 40CFR 60.12, NSPS Subpart A: Circumvention.
- 25 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 26 40CFR 60.14, NSPS Subpart A: Modifications.
- 27 40CFR 60.15, NSPS Subpart A: Reconstruction
- 28 40CFR 72: Compliance Demonstration

#### Emission Unit Level

##### EU=U-00003

- 30 6NYCRR 200.7: Compliance Demonstration
- 1-7 6NYCRR 204-1.6: Permit requirements (facilities commencing  
operation on or after 01/00)
- 31 6NYCRR 225-1.2: Compliance Demonstration
- \*33 6NYCRR 231-2.9(a): Compliance Demonstration
- \*34 6NYCRR 231-2.9(a): Compliance Demonstration
- 35 40CFR 60, NSPS Subpart Db: Compliance Demonstration



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- 36 40CFR 60, NSPS Subpart GG: Compliance Demonstration
- 37 40CFR 60.334(b), NSPS Subpart GG: Compliance Demonstration

**EU=U-00003,Proc=P01**

- 38 6NYCRR 231-2.5: Compliance Demonstration
- 39 6NYCRR 231-2.5: Compliance Demonstration
- 40 6NYCRR 231-2.5: Compliance Demonstration
- 41 6NYCRR 231-2.5: Compliance Demonstration
- 1-1 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 1-2 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 42 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 43 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 44 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 45 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 46 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 47 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 48 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 49 40CFR 52.21(j), Subpart A: Compliance Demonstration

**EU=U-00003,Proc=P02**

- 50 6NYCRR 231-2.5: Compliance Demonstration
- 51 6NYCRR 231-2.5: Compliance Demonstration
- 52 6NYCRR 231-2.5: Compliance Demonstration
- 53 6NYCRR 231-2.5: Compliance Demonstration
- 54 40CFR 52.21, Subpart A: Compliance Demonstration
- 55 40CFR 52.21, Subpart A: Compliance Demonstration
- 1-3 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 1-4 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 56 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 57 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 58 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 59 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 60 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 61 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 62 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 63 40CFR 52.21(j), Subpart A: Compliance Demonstration

**EU=U-00003,Proc=P03**

- 64 6NYCRR 231-2.5: Compliance Demonstration
- 65 6NYCRR 231-2.5: Compliance Demonstration
- 66 6NYCRR 231-2.5: Compliance Demonstration
- 67 6NYCRR 231-2.5: Compliance Demonstration
- 1-5 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 1-6 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 68 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 69 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 70 40CFR 52.21(j), Subpart A: Compliance Demonstration





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- 71 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 72 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 73 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 74 40CFR 52.21(j), Subpart A: Compliance Demonstration
- 75 40CFR 52.21(j), Subpart A: Compliance Demonstration

**EU=U-00003,EP=S0001**

- 76 6NYCRR 227-1.3(a): Compliance Demonstration

**EU=U-00003,EP=S0002**

- 77 6NYCRR 227-1.3(a): Compliance Demonstration

**EU=U-00003,EP=S0003**

- 78 6NYCRR 227-1.3(a): Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 79 ECL 19-0301: Contaminant List
- 80 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 81 6NYCRR 201-5: Emission Unit Definition
- 82 6NYCRR 211.2: Air pollution prohibited

**Emission Unit Level**

- 83 6NYCRR 201-5: Emission Point Definition By Emission Unit
- 84 6NYCRR 201-5: Process Definition By Emission Unit

NOTE: \* preceding the condition number indicates capping. Permit Expiration Date: No expiration date.

Mod 1 Permit Effective Date: 07/03/2002

Permit Expiration Date: No expiration date.



**FEDERALLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Sealing - 6NYCRR Part 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

**Item B: Acceptable Ambient Air Quality - 6NYCRR Part 200.6**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

**Item C: Maintenance of Equipment - 6NYCRR Part 200.7**

Any person who owns or operates an air contamination

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source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

**Item D: Unpermitted Emission Sources - 6NYCRR Part 201-1.2**

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Item E: Emergency Defense - 6NYCRR Part 201-1.5**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event



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occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**Item F: Recycling and Salvage - 6NYCRR Part 201-1.7**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

**Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8**

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR Part 201-3.2(a)**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)**

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific

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criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item J:**

**Required Emission Tests - 6 NYCRR Part 202-1.1**

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

**Item K:**

**Visible Emissions Limited - 6 NYCRR Part 211.3**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

**Item L: Open Fires - 6 NYCRR Part 215**

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

**Item M:**

**Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not

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limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item N: Federally Enforceable Requirements - 40 CFR 70.6(b)**

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**FEDERAL APPLICABLE REQUIREMENTS**

**The following conditions are federally enforceable.**

**Condition 1:**

**Title V Permit Requirement**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 201-6.3(a)(2)**

**Item 1.1:**

A Title V permit application must be submitted to the Department within one year of commencement of operation of this facility.

**Condition 2: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 202-1.1**

**Item 2.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 2.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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**Monitoring Description:**

Stack testing to determine compliance with the NO<sub>x</sub>, CO, PM/PM<sub>10</sub>, Sulfuric Acid Mist and VOC emission limits contained in this permit shall be completed for each individual turbine within 180 days of first fire of each individual gas turbine. Stack testing shall be completed for both fuels (natural gas and #2 fuel oil) during this 180 day period. Stack testing shall be done in accordance with a stack test protocol approved by the Department. The permittee shall submit a stack test protocol to the Department for review at least 60 days prior to conducting testing. The permittee shall notify the Department of the scheduled test dates at least 30 days prior to such dates. The final stack test report shall be submitted to the Department within 60 days of completion of testing.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Corrective action.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 227-1.6(a)**

**Item 3.1:**

Any facility found in violation of the provisions of this Part shall not cause, permit, or allow the operation of the affected stationary combustion installation unless:

- (1) it is equipped with approved emission control equipment;
- (2) it is rehabilitated or upgraded in an approved manner; or
- (3) the fuel is changed to an acceptable type.

**Condition 4:**

**Corrective action.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 227-1.6(b)**

**Item 4.1:**

The commissioner may seal the affected stationary combustion installation that does not comply with the provisions in subdivision 6 NYCRR 227-1.6(a) within the time provided.

**Condition 5:**

**Corrective action.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

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**Applicable Fe6NYCRR 227-1.6(c)**

**Item 5.1:**

No person shall cause, permit, or allow the operation of any affected stationary combustion installation sealed by the commissioner in accordance with this section.

**Corrective action.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 227-1.6(d)**

**Item 6.1:**

No person except the commissioner or his representative shall remove, tamper with, or destroy any seal affixed to any affected stationary combustion installation.

**Condition 7:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 7.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 7.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The plume-abated draft type cooling tower system shall be constructed and operated with drift eliminators maintained in good repair having a design drift rate of not greater than 0.0005 percent of the circulating water rate. The total particulate matter drift rate shall not be greater than 17.69 pounds per hour on a 24-hour basis or 0.9 gallons per minute, based on total solids in the circulating water of not greater than 40,000 ppm and a circulating water rate of not greater than 180,000 gallons per minute.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 8:**

**EPA Region 2 address.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**



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**Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A**

**Item 8.1:**

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance  
USEPA Region 2  
290 Broadway, 21st Floor  
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

**NYSDEC**

Bureau of Enforcement and Compliance Assurance  
625 Broadway  
Albany, NY 12233-3258

**Condition 9:      Date of construction notification - If a COM is not used.  
Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.7(a), NSPS Subpart A**

**Item 9.1:**

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, post marked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;
- 5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;



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6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date.

**Condition 10: Recordkeeping requirements.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.7(b), NSPS Subpart A**

**Item 10.1:**

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**Condition 11: Excess emissions report.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.7(c), NSPS Subpart A**

**Item 11.1:**

Affected owners or operators shall submit an excess emissions report and/or a summary report form (as defined in 40 CFR 60.7(d)) semi-annually (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each calendar quarter (or as appropriate), and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

**Condition 12:**

**Excess emissions report.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.7(d), NSPS Subpart A**

**Item 12.1:**

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

**Condition 13: Facility files for subject sources.**

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**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.7(f), NSPS Subpart A**

**Item 13.1:**

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

**Condition 14: Performance testing timeline.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.8(a), NSPS Subpart A**

**Item 14.1:**

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

**Condition 15: Performance test methods.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.8(b), NSPS Subpart A**

**Item 15.1:**

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR 60 or by alternative methods and procedures approved by the Administrator.

**Condition 16:**

**Required performance test information.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.8(c), NSPS Subpart A**

**Item 16.1:**

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operator of the facility.

**Condition 17: Prior notice.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.8(d), NSPS Subpart A**

**Item 17.1:**

The owner or operator shall provide the Administrator with prior notice of any performance test at least

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30 days in advance of testing.

**Condition 18: Performance testing facilities.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.8(e), NSPS Subpart A**

**Item 18.1:**

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

**Condition 19:**

**Number of required tests.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.8(f), NSPS Subpart A**

**Item 19.1:**

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

**Condition 20: Availability of information.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.9, NSPS Subpart A**

**Item 20.1:**

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by 40 CFR Part 2.

**Condition 21: Opacity standard compliance testing.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.11, NSPS Subpart A**

**Item 21.1:**

The following conditions shall be used to determine compliance with the opacity standards:

- 1) observations shall be conducted in accordance with Reference Method 9, in Appendix A of 40 CFR Part 60 (or an equivalent method approved by the Administrator including continuous opacity

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monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

**Condition 22: Compliance with Standards and Maintenance Requirements  
Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.11(a), NSPS Subpart A**

**Item 22.1:**

Compliance with standards in 40 CFR Part 60, other than opacity standards, shall be determined in accordance with performance tests established by section 60.8 of 40 CFR Part 60 unless otherwise specified in the applicable standard.

**Condition 23: Compliance with Standards and Maintenance Requirements  
Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.11(d), NSPS Subpart A**

**Item 23.1:**

At all times, including periods of startup, shutdown, and malfunction, owners and operators of this facility shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Department and the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

**Condition 24: Circumvention.  
Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.12, NSPS Subpart A**

**Item 24.1:**

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

**Condition 25: Monitoring requirements.  
Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.13, NSPS Subpart A**

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**Item 25.1:**

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

**CoModifications.**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.14, NSPS Subpart A**

**Item 26.1:**

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

**CReconstruction**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.15, NSPS Subpart A**

**Item 27.1:**

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

**Condition 28: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 72**



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**Item 28.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):  
CAS NSULFUR DIOXIDE

**Item 28.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is subject to Title IV Acid Rain Regulations found in 40CFR Parts 72, 73, 75, 76, 77 and 78. The Title IV permit will be attached.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**\*\*\*\* Emission Unit Level \*\*\*\***

**Condition 30:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 200.7**

**Item 30.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 0076AMMONIA

**Item 30.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions shall be controlled by efficient use of the SCR and are limited to 5 ppmvd at 15% Oxygen.

Upper Permit Limit: 5 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 7E



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Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-7: Permit requirements (facilities commencing operation on or after 01/00)**  
**Effective between the dates of 07/03/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 204-1.6**

**Item 1-7.1:**

This Condition applies to Emission Unit: U-00003

**Item 1-7.2:** The NOx authorized account representative of each NOx budget unit shall submit to the Department a complete NOx Budget permit application (as defined under Section 204-3.3) by May 1, 2002 or 12 months before the date on which the NOx Budget unit commences operation.

**Condition 31: Compliance Demonstration**  
**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 225-1.2**

**Item 31.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: SULFUR (S 035)

**Item 31.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The sulfur content of the Number 2 oil shall not exceed 0.05% by weight.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR (S 035)

Upper Permit Limit: 0.05 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: ANNUALLY (ANNIVERSARY)





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Initial Report Due: 04/20/2003 for the period 03/22/2002 through 03/21/2003

**Condition 33:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.9(a)**

**Item 33.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):  
COXIDES OF NITROGEN

**Item 33.2:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emission unit potential of NO<sub>x</sub> shall not exceed 265.6 tons per year. Emission offsets of NO<sub>x</sub> shall exceed the emission unit emission potential by an offset ratio of 1.3:1. Therefore, 345.3 tons per year of NO<sub>x</sub> offsets shall be obtained and identified at least 60 days prior to permit issuance. To satisfy emission offset requirements, the facility has identified the following sources and emission reduction credits (ERCs):

**FACILITY**

**QUANTITY (Tons/yr)**

Astoria Generating Station	
133	
TRW, Inc. Steering Wheel Systems	
5.7	
Wisvest Connecticut, LLC	
207	

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 34:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

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**Applicable Fe6NYCRR 231-2.9(a)**

**Item 34.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 34.2:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emission unit potential of VOC shall not exceed 78.2 tons per year. Emission offsets of VOC shall exceed the emission unit emission potential by an offset ratio of 1.3:1. Therefore, 101.6 tons per year of VOC offsets shall be obtained and identified at least 60 days prior to permit issuance. To satisfy emission offset requirements, the facility has identified the following sources and emission reduction credits (ERCs):

FACILITY

QUANTITY (Tons/yr)

PG&E Energy Trading-Power

45

Avery Dennison Corporation

73.02

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 35: Compliance Demonstration**



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**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60, NSPS Subpart Db**

**Item 35.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

**Item 35.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility must comply with all applicable sections of  
40CFR 60-Db.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2003.

Subsequent reports are due every 12 calendar month(s).

**Condition 36: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60, NSPS Subpart GG**

**Item 36.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

**Item 36.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility must comply with all applicable sections of  
40CFR 60-GG.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2003.

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Subsequent reports are due every 12 calendar month(s).

**Condition 37: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 60.334(b), NSPS Subpart GG**

**Item 37.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 37.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility will monitor either Daily or in accordance with a USEPA custom fuel monitoring plan.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (ANNIVERSARY)

Initial Report Due: 10/21/2002 for the period 03/22/2002 through 09/21/2002

**Condition 38: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 38.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 38.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:



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BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 15.2 lbs/hr and 2.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 15.2 pounds per hour  
Reference Test Method: Method 7E  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 39: Compliance Demonstration**  
**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 39.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P01

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 39.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:  
BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 15.2 lbs/hr and 2.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 2.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: Method 7E  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE



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Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 40: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 40.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 40.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is defined as CO catalyst and efficient combustion techniques. Emission limits per turbine are 3.2 lbs/hr and 1.2 ppmvd at 15% oxygen.

Parameter Monitored: VOC

Upper Permit Limit: 1.2 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 41: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 41.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01



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Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 41.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is defined as CO catalyst and efficient combustion techniques. Emission limits per turbine are 3.2 lbs/hr and 1.2 ppmvd at 15% oxygen.

Parameter Monitored: VOC

Upper Permit Limit: 3.2 pounds per hour

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-1: Compliance Demonstration**

**Effective between the dates of 07/03/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-1.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

**Item 1-1.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 19.1 lbs/hr and 0.02 lbs/mmbtu.

Parameter Monitored: PM-10

Upper Permit Limit: 0.02 pounds per million Btus

Reference Test Method: 201, 201A, 202

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE



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Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-2: Compliance Demonstration**

**Effective between the dates of 07/03/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-2.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

**Item 1-2.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 19.1 lbs/hr and 0.02 lbs/mmBtu.

Parameter Monitored: PM-10

Upper Permit Limit: 19.1 pounds per hour

Reference Test Method: 201, 201A, 202

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 42: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 42.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 42.2:**





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Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 19.1 lbs/hr and 0.02 lbs/mmbtu.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 19.1 pounds per hour

Reference Test Method: Method 5

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 43: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 43.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 43.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT defined as a CO catalyst with emission limits per turbine of 9.3 lbs/hr and 2.0 ppmvd at 15% Oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 9.3 pounds per hour

Reference Test Method: Method 10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

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**Condition 44:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 44.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS NSULFUR DIOXIDE

**Item 44.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

BACT defined as use of low sulfur fuel (sulfur content of the natural natural gas not to exceed 0.5 grains/100scf) with emission limits per turbine of 2.9 lbs/hr and 0.0014 lbs/mmbtu. Monitoring Frequency shall be daily or in accordance with a custom fuel monitoring schedule approved

by the USEPA.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NATURAL GAS

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.5 grains per 100 dscf

Reference Test Method: PART60, APPEND B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 45:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**



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**Item 45.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 007664-93-9      SULFURIC ACID

**Item 45.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of low sulfur fuel (sulfur content of the natural natural gas not to exceed 0.5 grains/100scf) with emission limits per turbine of 0.00033 lbs/mmBtu.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.00033 pounds per million Btus

Reference Test Method: PART60, APPEND B&F

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 46:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 46.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: PARTICULATES

**Item 46.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 19.1 lbs/hr and 0.02 lbs/mmBtu.

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Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.02 pounds per million Btus  
Reference Test Method: Method 5  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 47: Compliance Demonstration**  
**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 47.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 47.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT defined as a CO catalyst with emission limits per turbine of 9.3 lbs/hr and 2.0 ppmvd at 15% Oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 2.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 48: Compliance Demonstration**  
**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**New York State Department of Environmental Conservation**

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**Item 48.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 0NY210-00-0    OXIDES OF NITROGEN

**Item 48.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 15.2 lbs/hr and 2.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 15.2 pounds per hour

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 49: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 49.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P01

Regulated Contaminant(s):

CAS No: 0NY210-00-0    OXIDES OF NITROGEN

**Item 49.2:**

Compliance Demonstration shall include the following monitoring:



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Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 15.2 lbs/hr and 2.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 50: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal/State Regulations: 6 NYCRR 231-2.5**

**Item 50.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

OXIDES OF NITROGEN

**Item 50.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of steam injection combined with selective catalytic reduction (SCR) system. Emission limits per turbine are 38.6 lbs/hr and 8.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 38.6 pounds per hour

Reference Test Method: Method 7E



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Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 51:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 51.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 51.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of steam injection combined with selective catalytic reduction (SCR) system. Emission limits per turbine are 38.6 lbs/hr and 8.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 8.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 52:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

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**Item 52.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 52.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is defined as CO catalyst and efficient combustion techniques. Emission limits per turbine are 5.1 lbs/hr and 3.0 ppmvd at 15% oxygen.

Parameter Monitored: VOC

Upper Permit Limit: 3.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 53:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 53.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 53.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is defined as CO catalyst and efficient combustion





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techniques. Emission limits per turbine are 5.1 lbs/hr and 3.0 ppmvd at 15% oxygen.

Parameter Monitored: VOC

Upper Permit Limit: 5.1 pounds per hour

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 54: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 54.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 54.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No. 2 Fuel Oil usage is limited to 19.6 million gallons during any 12 consecutive month period.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Upper Permit Limit: 19.6 million gallons

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (ANNIVERSARY)

Initial Report Due: 04/20/2003 for the period 03/22/2002 through 03/21/2003

**Condition 55: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 55.1:**



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The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

**Item 55.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Oil firing will be limited a total of eight hours between the hours of 8:00 AM to 8:00 PM on a daily basis.

Monitoring Frequency: DAILY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION

Reporting Requirements: MONTHLY (ANNIVERSARY)

Initial Report Due: 05/21/2002 for the period 03/22/2002 through 04/21/2002

**Condition 1-3: Compliance Demonstration**

**Effective between the dates of 07/03/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-3.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

**Item 1-3.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 63.5 lbs/hr and 0.058 lbs/mmbtu.

Parameter Monitored: PM-10

Upper Permit Limit: 0.058 pounds per million Btus

Reference Test Method: 201, 201A, 202

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE



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Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-4: Compliance Demonstration**

**Effective between the dates of 07/03/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-4.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

**Item 1-4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 63.5 lbs/hr and 0.058 lbs/mmbtu.

Parameter Monitored: PM-10

Upper Permit Limit: 63.5 pounds per hour

Reference Test Method: 201, 201A, 202

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 56:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 56.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: PARTICULATES

**Item 56.2:**



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Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 63.5 lbs/hr and 0.058 lbs/mmbtu.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.058 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 57:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 57.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CACARBON MONOXIDE

**Item 57.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT defined as a CO catalyst with emission limits per turbine of 22.2 lbs/hr and 9.6 ppmvd at 15% Oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 9.6 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.



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Subsequent reports are due every 3 calendar month(s).

**Condition 58:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 58.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

COXIDES OF NITROGEN

**Item 58.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of steam injection combined with selective catalytic reduction (SCR) system. Emission limits per turbine are 38.6 lbs/hr and 8.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 38.6 pounds per hour

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 59:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 59.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02



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Regulated Contaminant(s):  
COXIDES OF NITROGEN

**Item 59.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of steam injection combined with selective catalytic reduction (SCR) system. Emission limits per turbine are 38.6 lbs/hr and 8.0 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 8.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 60:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 60.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):  
CAS NSULFUR DIOXIDE

**Item 60.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

BACT defined as use of low sulfur fuel (No. 2 Fuel Oil

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not to exceed 0.05 percent by weight) with emission limits per turbine of 69.5 lbs/hr and 0.055 lbs/mmbtu. Monitoring Frequency shall be daily or in accordance with a custom fuel monitoring schedule approved by the USEPA

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: NUMBER 2 OIL  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 0.05 percent by weight  
Reference Test Method: PART60, APPEND B&F  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 61: Compliance Demonstration**  
**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 61.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P02

Regulated Contaminant(s):  
CAS No: 0NY075-00-0 PARTICULATES

**Item 61.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 63.5 lbs/hr and 0.058 lbs/mmbtu.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 63.5 pounds per hour  
Reference Test Method: Method 5  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE



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Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 62: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 62.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: 007664-93-9 SULFURIC ACID

**Item 62.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of low sulfur fuel (No. 2 fuel oil not to exceed 0.05% sulfur by weight) and with emission limits per turbine of 0.013 lbs/mmBtu.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.013 pounds per million Btus

Reference Test Method: PART60, APPEND B&F

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 63: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 63.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P02

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 63.2:**





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Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT defined as a CO catalyst with emission limits per turbine of 22.2 lbs/hr and 9.6 ppmvd at 15% Oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 22.2 pounds per hour

Reference Test Method: Method 10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 64: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 64.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 64.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 20.4 lbs/hr and 2.9 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.9 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 7E



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 65:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 65.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P03

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 65.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 20.4 lbs/hr and 2.9 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 20.4 pounds per hour  
Reference Test Method: Method 7E  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 66:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

**Item 66.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 66.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is defined as CO catalyst and efficient combustion techniques. Emission limits per turbine are 7.0 lbs/hr and 2.4 ppmvd at 15% oxygen.

Parameter Monitored: VOC

Upper Permit Limit: 7.0 pounds per hour

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 67:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 231-2.5**

**Item 67.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 67.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

LAER is defined as CO catalyst and efficient combustion techniques. Emission limits per turbine are 7.0 lbs/hr and 2.4 ppmvd at 15% oxygen.

**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**



Parameter Monitored: VOC

Upper Permit Limit: 2.4 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 25A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-5: Compliance Demonstration**

**Effective between the dates of 07/03/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-5.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

**Item 1-5.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient  
combustion techniques with emission limits per turbine of  
21.6 lbs/hr and 0.012 lbs/mmbtu.

Parameter Monitored: PM-10

Upper Permit Limit: 0.012 pounds per million Btus

Reference Test Method: 201, 201A, 202

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-6: Compliance Demonstration**

**Effective between the dates of 07/03/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 1-6.1:**

The Compliance Demonstration activity will be performed for:



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

Emission Unit: U-00003  
Process: P03

Regulated Contaminant(s):  
CAS No: 0NY075-00-5 PM-10

**Item 1-6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:  
BACT defined as use of clean burning fuel and efficient  
combustion techniques with emission limits per turbine of  
21.6 lbs/hr and 0.012 lbs/mmbtu.

Parameter Monitored: PM-10  
Upper Permit Limit: 21.6 pounds per hour  
Reference Test Method: 201, 201A, 202  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 68:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 68.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003  
Process: P03

Regulated Contaminant(s):  
CACARBON MONOXIDE

**Item 68.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:  
BACT defined as a CO catalyst with emission limits per  
turbine of 13.4 lbs/hr and 2.8 ppmvd at 15% Oxygen.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 13.4 pounds per hour



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

Reference Test Method: Method 10  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2002.  
Subsequent reports are due every 3 calendar month(s).

**Condition 69: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 69.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 69.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

BACT defined as use of low sulfur fuel (sulfur content of the natural gas not to exceed 0.5 grains/100scf) with emission limits per turbine of 3.3 lbs/hr and 0.0014 lbs/mmbtu. Monitoring Frequency shall be daily or in accordance with a custom fuel monitoring schedule approved by the USEPA

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NATURAL GAS

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.5 grains per 100 dscf

Reference Test Method: PART60, APPEND B&F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.



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**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

Subsequent reports are due every 3 calendar month(s).

**Condition 70: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 70.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 007664-93-9 SULFURIC ACID

**Item 70.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of low sulfur fuel (natural gas with  
0.5 grains/100scf) with emission limits per turbine of  
0.00033 lbs/mmbtu.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.00033 pounds per million Btus

Reference Test Method: PART60, APPEND B&F

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 71: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 71.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 71.2:**



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 20.4 lbs/hr and 2.9 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 20.4 pounds per hour

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 72: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 72.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 72.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of 21.6 lbs/hr and 0.012 lbs/mmbtu.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.012 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: SINGLE OCCURRENCE



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**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**



Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 73:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 73.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

OXIDES OF NITROGEN

**Item 73.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT/LAER defined as use of dry low NO<sub>x</sub> combustion technology in combination with a selective catalytic reduction (SCR) system. Emission limits per turbine are 20.4 lbs/hr and 2.9 ppmvd at 15% oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.9 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 74:**

**Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 74.1:**

The Compliance Demonstration activity will be performed for:



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 74.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

BACT defined as a CO catalyst with emission limits per turbine of 13.4 lbs/hr and 2.8 ppmvd at 15% Oxygen.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 2.8 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Method 10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 75: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 75.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Process: P03

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 75.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT defined as use of clean burning fuel and efficient combustion techniques with emission limits per turbine of

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**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**



21.6 lbs/hr and 0.012 lbs/mmbtu.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 21.6 pounds per hour

Reference Test Method: Method 5

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 76: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Fe6NYCRR 227-1.3(a)**

**Item 76.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003 Emission Point: S0001

**Item 76.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due every 3 calendar month(s).

**Condition 77: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 227-1.3(a)**



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

**Item 77.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003    Emission Point: S0002

**Item 77.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

**Condition 78: Compliance Demonstration**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable Fe6NYCRR 227-1.3(a)**

**Item 78.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003    Emission Point: S0003

**Item 78.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

upon the six minute average in reference test method 9 in  
Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).



**STATE ONLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6NYCRR Part 201-1.10(a)**

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or

**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**



law.

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state only enforceable.**

**Condition 79:**

**Contaminant List**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable State Requirement: ECL 19-0301**

**Item 79.1:**

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 007664-41-7

Name: AMMONIA

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY075-00-5

Name: PM-10

CAS No: 0NY035-16-0

Name: SULFUR (S 035)

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 007664-93-9

Name: SULFURIC ACID

CAS No: 0NY998-00-0

Name: VOC

**Condition 80: Unavoidable noncompliance and violations**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**

**Applicable State Requirement: 6NYCRR 201-1.4**

**Item 80.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

- (a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.
- (b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.
- (c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.
- (d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.
- (e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 81: Emission Unit Definition**



**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**



**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable State R6NYCRR 201-5**

**Item 81.1(From Mod 1):**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-00003

Emission Unit Description:

EMISSION UNIT U0003 REPRESENTS THREE IDENTICAL GE 7FA COMBUSTION TURBINES, EACH IS RATED AT 1815 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 50 DEG F AND 2272 MMBTU/HR WHEN FIRING NO.2 FUEL OIL (BACK-UP FUEL) AT -10 DEG F AND 50% LOAD. EACH HRSG IS EQUIPPED WITH A DUCT BURNER RATED AT 234 MMBTU/HR WHILE FIRING NATURAL GAS. THE COMBINED CYCLE FACILITY GENERATES APPROXIMATELY 750 MW OF POWER.

Building(s): BLDG. A

**Condition 82: Air pollution prohibited**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable State R6NYCRR 211.2**

**Item 82.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

**\*\*\*\* Emission Unit Level \*\*\*\***

**Condition 83: Emission Point Definition By Emission Unit**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable State R6NYCRR 201-5**

**Item 83.1(From Mod 0):**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00003

**New York State Department of Environmental Conservation**

**Permit ID: 3-3922-00003/00013**

**Facility DEC ID: 3392200003**



Emission PtS0001

Height (ft.): 286

Diameter (in.): 216

Building: BLDG. A

Emission Point:

S0002

Height (ft.): 286

Diameter (in.): 216

Building: BLDG. A

Emission Point: S0003

Height (ft.): 286

Diameter (in.): 216

Building: BLDG. A

**Condition 84: Process Definition By Emission Unit**

**Effective between the dates of 03/22/2002 and Permit Expiration Date**

**Applicable State R6NYCRR 201-5**

**Item 84.1(From Mod 1):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00003

Process: P01

Source Classification Code: 2-01-002-01

Process Description:

EMISSION UNIT U00003 REPRESENTS THREE IDENTICAL GE 7FA COMBUSTION TURBINES EACH IS RATED AT 1815 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 50 DEG F AND 1141 MMBTU/HR WHEN FIRING NO.2 FUEL OIL (BACK-UP FUEL) AT 50 DEG F AND 50% LOAD. EACH HRSG IS EQUIPPED WITH A DUCT BURNER RATED AT 234 MMBTU/HR WHILE FIRING NATURAL GAS. PROCESS P01 FOR EMISSION UNIT U00003 REPRESENTS NATURAL GAS FIRING IN THE TURBINES. FOR THIS PROCESS DRY LOW NOX BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NOX EMISSIONS. EACH TURBINE WILL BE EQUIPPED WITH A CO CATALYST.

Emission Unit: 0T001 - Combustion

Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0T002 - Combustion

Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0T003 - Combustion



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Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0DLN1 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0DLN2 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0DLN3 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR2 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR3 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: OCOC1 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: OCOC2 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: OCOC3 - Control  
Control Type: CATALYTIC OXIDATION

**Item 84.2(From Mod 1):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00003

Process: P02

Source Classification Code: 2-01-001-01

Process Description:

EMISSION UNIT U00003 REPRESENTS THREE IDENTICAL GE 7FA COMBUSTION TURBINES EACH IS RATED AT 1815 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 50 DEG F AND 1141 MMBTU/HR WHEN FIRING NO.2 FUEL OIL (BACK-UP FUEL) AT 50 DEG F AND 50% LOAD. EACH HRSG IS EQUIPPED WITH A DUCT BURNER RATED AT 234 MMBTU/HR WHILE FIRING NATURAL GAS. PROCESS P02 FOR EMISSION UNIT U00003 REPRESENTS DISTILLATE FUEL OIL FIRING IN TWO OF THE TURBINES AT 50% LOAD. FOR THIS PROCESS SELECTIVE CATALYTIC REDUCTION AND



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WATER INJECTION ARE USED TO CONTROL NOX EMISSIONS. EACH TURBINE WILL BE EQUIPPED WITH A CO CATALYST.

Emission Source/Control: 0T001 - Combustion  
Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0T002 - Combustion  
Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0T003 - Combustion  
Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR2 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR3 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SI01 - Control  
Control Type: STEAM OR WATER INJECTION

Emission Source/Control: 0SI02 - Control  
Control Type: STEAM OR WATER INJECTION

Emission Source/Control: 0SI03 - Control  
Control Type: STEAM OR WATER INJECTION

Emission Source/Control: 0COC1 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: 0COC2 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: 0COC3 - Control  
Control Type: CATALYTIC OXIDATION

**Item 84.3(From Mod 1):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00003

Process: P03

Source Classification Code: 2-01-002-01

Process Description:

EMISSION UNIT U00003 REPRESENTS THREE



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IDENTICAL GE 7FA COMBUSTION TURBINES EACH IS RATED AT 1815 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 50 DEG F AND 1141 MMBTU/HR WHEN FIRING NO.2 FUEL OIL (BACK-UP FUEL) AT 50 DEG F AND 50% LOAD. EACH COMBUSTION TURBINE IS EQUIPPED WITH A DUCT BURNER RATED AT 234 MMBTU/HR WHILE FIRING NATURAL GAS. PROCESS P03 FOR EMISSION UNIT U00003 REPRESENTS NATURAL GAS FIRING IN THE GAS TURBINE AND DUCT BURNER. SUPPLEMENTARY DUCT BURNERS WILL OPERATE ONLY WHEN COMBUSTION TURBINES ARE AT 100% LOAD. FOR THIS PROCESS DRY LOW NOX BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NOX EMISSIONS. EACH TURBINE WILL BE EQUIPPED WITH A CO CATALYST.

Emission Source/Control: 0SF01 - Combustion  
Design Capacity: 234 million Btu per hour

Emission 0SF02 - Combustion  
Design Capacity: 234 million Btu per hour

Emission Source/Control: 0SF03 - Combustion  
Design Capacity: 234 million Btu per hour

Emission Source/Control: 0T001 - Combustion  
Design Capacity: 1,815 million Btu per hour

Emission 0T002 - Combustion  
Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0T003 - Combustion  
Design Capacity: 1,815 million Btu per hour

Emission Source/Control: 0DLN1 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission 0DLN2 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0DLN3 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

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Emission Source/Control: 0SCR2 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 0SCR3 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission OCOC1 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: OCOC2 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: OCOC3 - Control  
Control Type: CATALYTIC OXIDATION